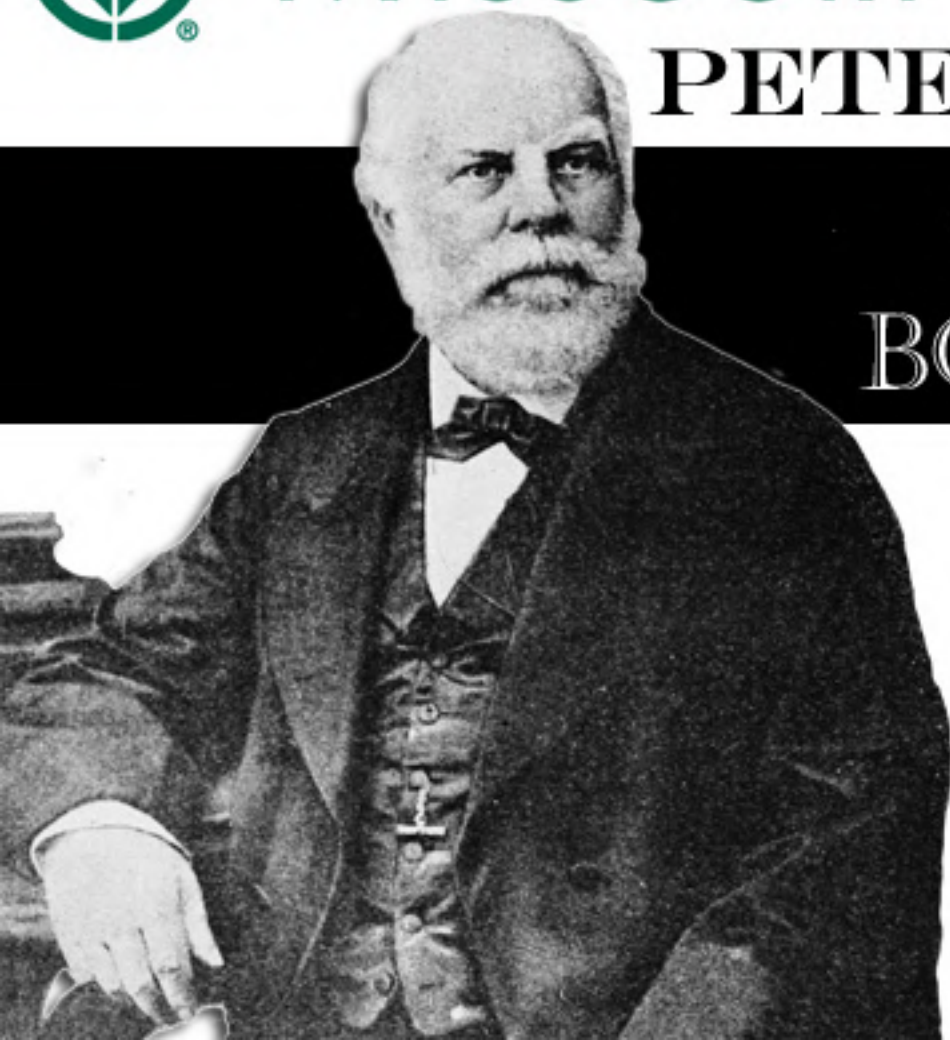


PETER H. RAVEN LIBRARY

GEORGE ENGELMANN
BOTANICAL NOTEBOOKS



Pagination Note:

Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

5. Cune p. 467

C. Palustris Boiss.

C. cretica Tourn. Tausch olim

C. minima Engelm olim

C. alba auctorum nonnullorum,

non desinunt

C. micrantha, Tineo. fide Hb. Berol.

C. floribus et capitulis minimis
Tourn.

aaa *Creta*, Sieber

151 " " & V. Raulin N. 323

148 Attica Helderich

172 Attica, & Syria & Morea

252 ile d'Orclach & Morea

272 *C. Palustris* Boiss. Libanon

= *C. capillaris* Reichenbach

Planta critica vol V. p. 64

(Enclosed 119-123)



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

4441

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

1843

mirabilis

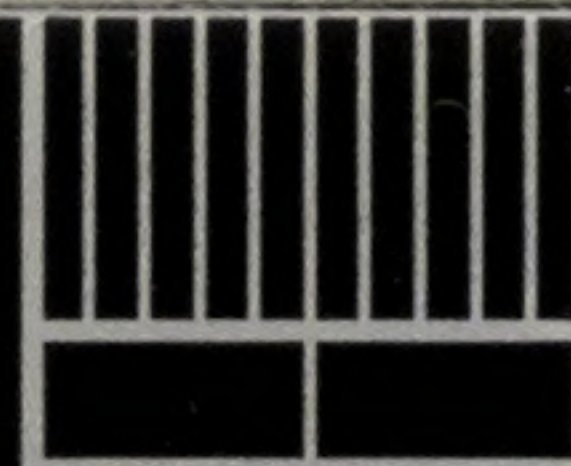
Quercus (alba Presl)

Mirabello

on Thymus

Sieber

aaa



0

1

2

3

4

5

6

7

8

9

10

cm

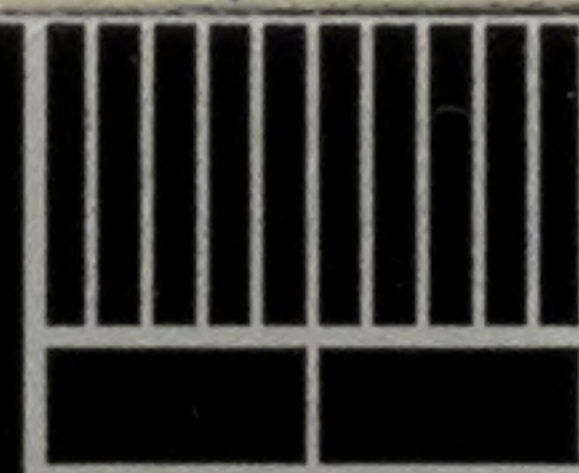
copyright reserved



MISSOURI
BOTANICAL
GARDEN

4442

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



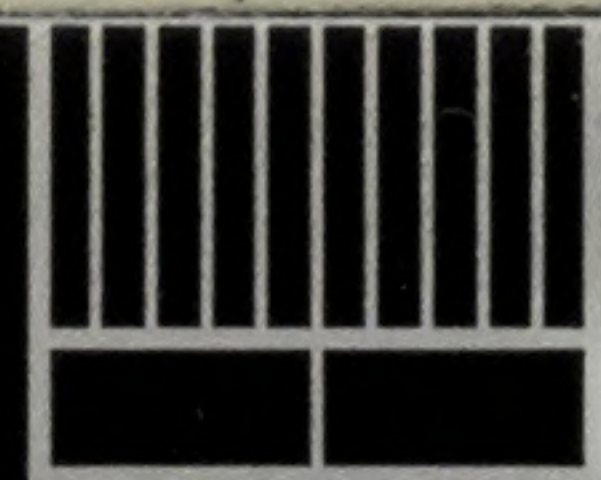
MISSOURI
BOTANICAL
GARDEN

Near *Cuscuta alba* (both have short styles, sessile flowers,
acute petals) but distinguished by the smaller 3-4-
parted flowers, capitate calyx, which is divided only at
the top & the inflexed pointed lobes of Corolla, which are emarginate
at tip but apparently not tumid.

Same plant is in Herb. Mus. Paris, collected on the
"Platan rocks" around De Khania (Crete)
by Victor Paulin 1845 No. 323. flower not more
than 0.6 line long — almost hidden in the calyx much more
than the *Athysa* plant. Ground about 1/2 line high

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4443



0
cm

1

2

3

4

5

6

7

8

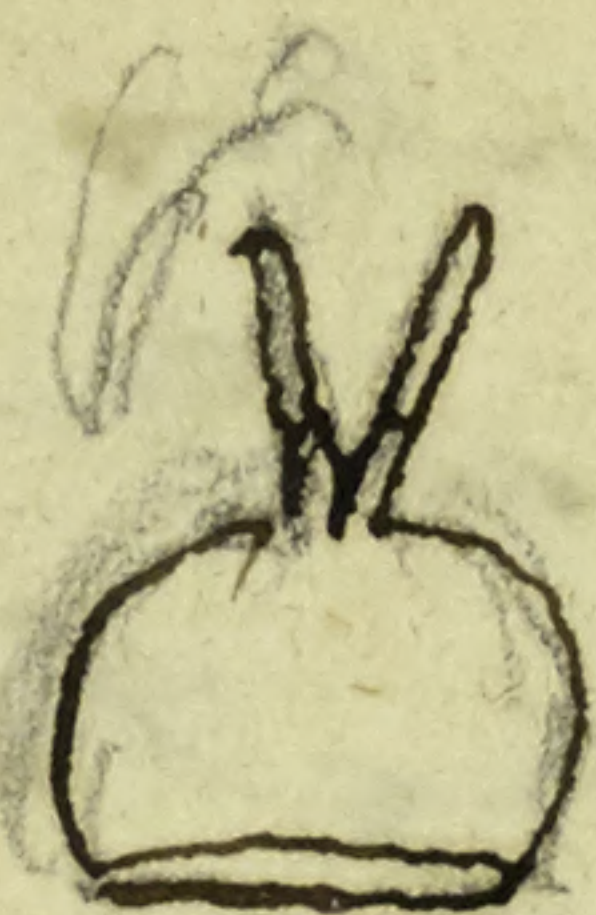
9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN

0.6
-0.70.9
-1.00.25
-0.3

9-10

0.3
-0.3much
magnified
scale

scales to be much around to this

*Cuscuta alba**Atropa de Heldreich*

ex Herb. reg. Berl. & Hb. Cassan

in Thymus capitatus

3 June 1835

better description 15!

humilis, capillacea

glomerulis densis parvis

(2 lin diam); albis s. ochroleucis -

H. rectis sessilibus, 3-4 fidis; calycis

lobis vix imbricatis ovatis acutis,

tubo corollae paullo longioribus

laciniis acutiusculis

tubo paullo brevioribus s. e-

aequalibus, ovatis imbricatis

apice emarginatis emarginatis

imbricatis, emarginatis

antheris ovatis oblongatis

filamentis aequalibus

ovariis ovatis fimbriatis

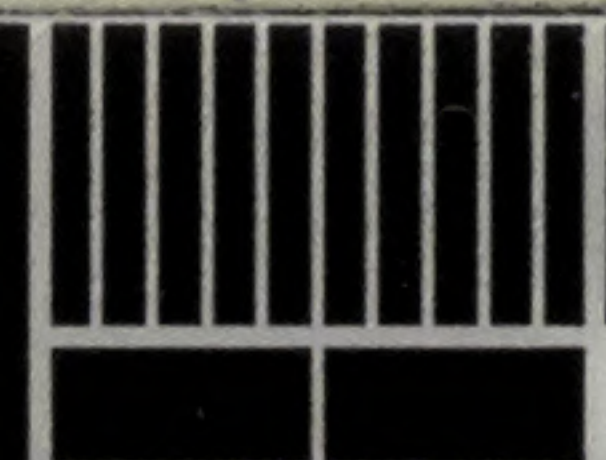
insummis, fimbriatis

medio tubo affixis;

D'aut, seu murti vumulos is

fls $\frac{1}{2}$ - $\frac{3}{4}$ lin long - seed only $\frac{3}{10}$ lin long, style
- ripe Caps $\frac{1}{2}$ of same length as capsule

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



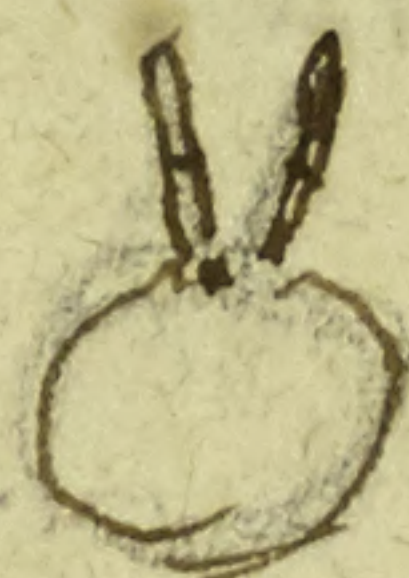
0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved

MISSOURI
BOTANICAL
GARDEN

1.0



0.4

Cuscuta

on *Hypericum empetriifolium*

Atkinson

Grisebach Herb



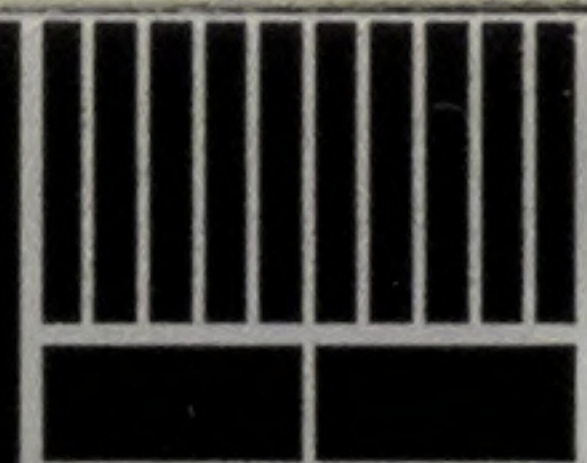
This is the same as the *Cuscuta* plant
and is distinguishable only by the
more fleshy calyx. — It is 4-
parted or sometimes 3 parted
seeds with large warts.



Cuscuta, Syria, Archipelago, Victor Roulin 1845

— Herb near Paris

is the same plant, heads 8-10 flowers, a few abortive
ones outside — heads 2-4 fruit 2 lines diameter;
calyx lobes thick, carinate towards the tip.



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

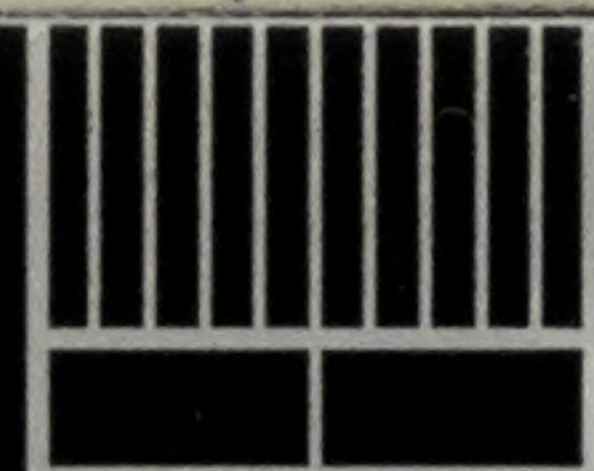


MISSOURI
BOTANICAL
GARDEN

The same plant is in Herb. reg. Berl. labeled:
Morea, Bourg de St Vincent

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4445



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Cuscuta, 96 J' Oudach Maj's 1826 Mr Lefevre

ex parte

Herb. Mus. Paris

most of the species is only one, but those on *Thymus*
are not distinct from Cretica — but it seems that *Cretica*
is a plant almost too near to *planiflora* — the smallest
form with large membranaceous calyx; — most always 3-4
parted, central or possetive flowers sometimes also 5 parted —
~~calyx styles~~ The short styles are the best character
for our plant to distinguish it

Cuscuta minor "

Morée, Scadamonde,

Chamb

in the Herb. Mus. Paris, on *Saturia* is the same plant.

I perhaps the plant in Herb. Berlin labelled "Morca, Boy de H. Dint"
is even the same specimen! —

Glomerules few flowered; leaves
attenuate at base; — bracts ovate lanceolate.



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



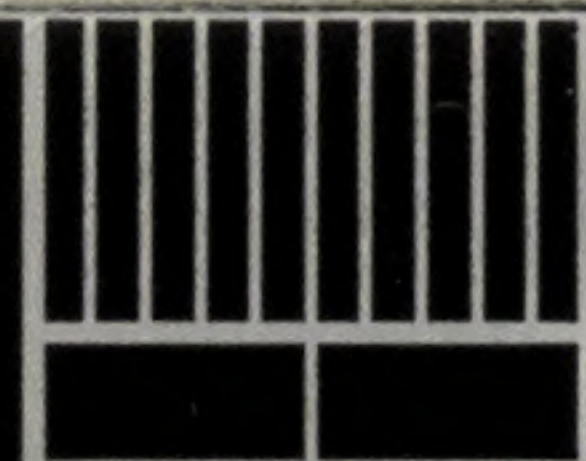
MISSOURI
BOTANICAL
GARDEN

Cuscuta micrantha Tineo

Grotte de la Capras presso P. apure
Tineo 1847

in Hb Kew, olim Bentham is the same plant
flowers 4 parted - calyx lobes cuspidate, style
divaricate, longer than ovary

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Paris July 1857

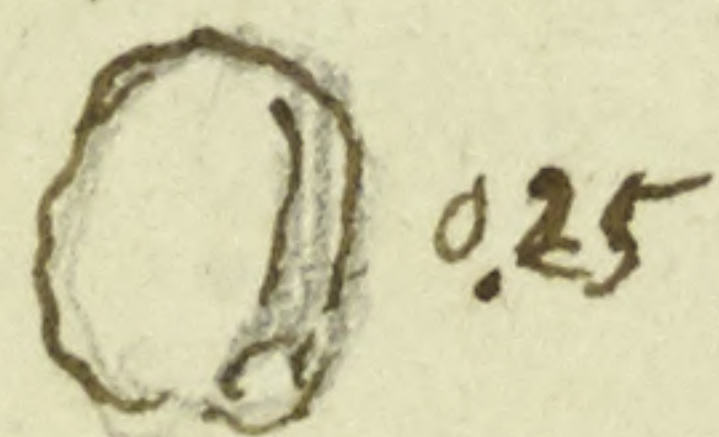
*Cuscuta Palæstina Boiss*[named by Boissier, but not
his original specimen]

Première Colline du Liban

sur le Paterium spinosum.

C. Gaillardot

- Herb. Corson



This plant stands very near *Cuscuta Cratica*
flowers scarcely larger — the principal difference
lies in the much longer style; both may be
considered ~~varieties~~ of one type. Question whether

the original *C. palæstina* of Boissier is the same thing. —

— Scales mostly truncate but occasionally divided; anthers apiculate
ovate, as long as broadish filament; style twice as long as ~~ovary~~ slender
about half its length stigmatose — calyx lobes narrower, and more

0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved

MISSOURI
BOTANICAL
GARDEN

deeply divided. — Seeds (ripe ??) extremely small
I consider it a long-styled form of *C. critica*.
Flowers mostly 4 parted, rarely 5 parted

The plant in Herb Mus Paris, "dans les rochers de Liban,
environs de Saïda" Mr. Blanche 18th Mars 1853
is also on Poterius, but is a fair & true *C. critica*
not distinguishable from the plant of Sieber etc.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4447



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

157

707 *Cucurbita Ballause*

Boiss & Reut

always on *Hypocissus velutinum* ^{Herb.}
higher regions of the Taurus

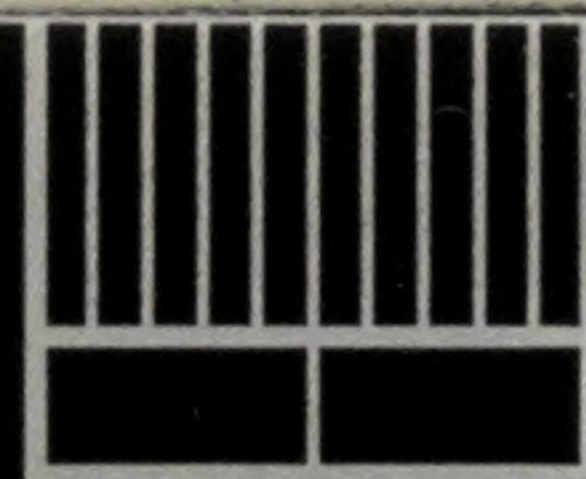
Asia Minor

Ballause Leg 1858

Hb. Griseb. Comm. Gay

capitula glomerata parvis acutis
obovatis, floribus subsessilibus,
coloratis parvis & fideis, granulata-saccharatis
calycis lobis profunde fissis lobato-lanceolatis
subserratis, acutis subrevivis;
tubo corollae brevi petalo longioribus;
laciniis irregulariter ovatis acutis reflexis;
petalis, dim. erectis; staminibus brevibus
antheris parvis & bisulcatis; squamis
minutis truncatis lamellis adpressis;

This is = *C. alba*
according to Boiss



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

fruits brownish; style ovate-negatively, beak,
capsule brownish; —

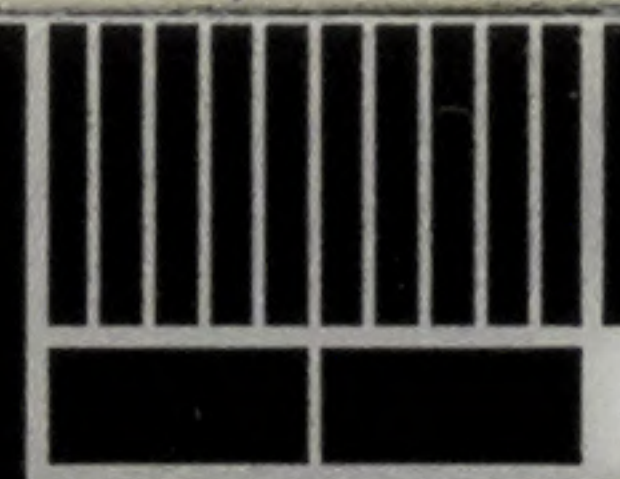
Near *Cuscuta minima*, which is still smaller
and entirely smooth with large scales and
rather longer styles, longer reflex lobes of corolla

^{Balsam}
-708. on a low Genista, Taurus, near Cesarea is in
Herb. Gray this same plant; but in most others it is
C. elegans.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

The plant is distinguished from all forms of *C. papilion* by the very different
form of the calyx & corolla, absence of any thing like a twisted tip
and the very short styles

4448



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN



Cuscuta papillosa

Common dans les terrains
secs en Avril & May

Oran - 1847

Herb. Mus. Paris



0.5

seed very rough like
all those of planiflora
and its allies



0.4

Dr. L. L. Aman

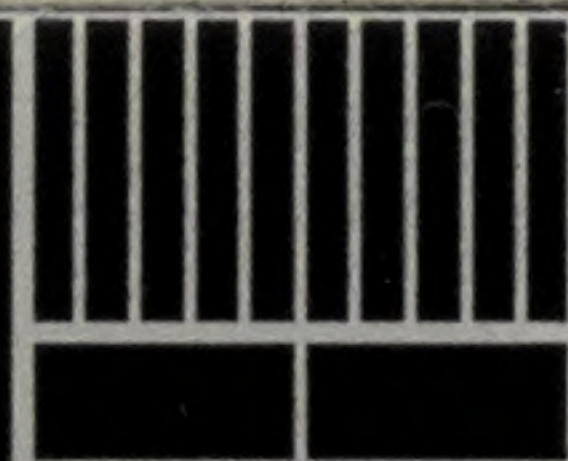
papillosa

caulibus humilibus capillaceis, glomeratis
arcte semilibus; floribus semilibus, 4-meris
calycis profunde divisi lobis lanceolatis;
antheris, tumidis, tubum corollae brevibus
superantibus; laciniis lanceolatis, apertis
apice tumidis cucullatis; staminibus brevibus
antheris elongatis filamento aequalibus; seminibus
bifidis, unguatis, basi corollae sub corollam
medium adnatis, paucidentatis; stylis
subulatis ad medium stigmatosis ovario
globoso longioribus; corollae lobis incapsulis brevioribus
superioribus (at least in one form)



Tunis

Oran



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

It seems that there are forms of this plant with less acute lobes, which is scarcely distinct from calycina except by the small bifid scales and the papillae of the whole flower. —

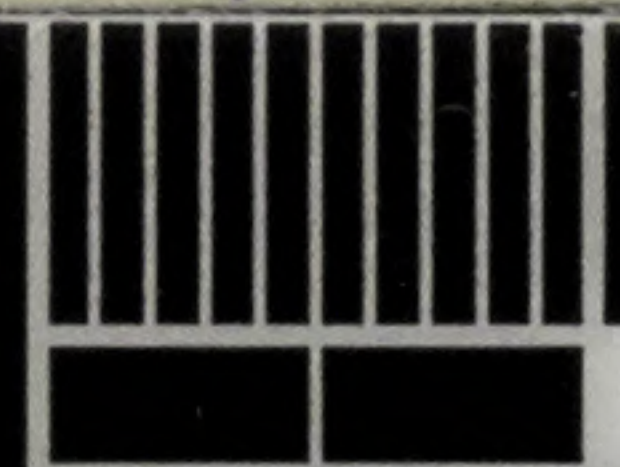
A specimen in Hb. Berlin: Salzman, Sudfrontreich is very similar in the form to this — sepals & petals acute but it is not papillose! it might be named
var: acutiloba see 273

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

L. Knilik plantae Tunetanae : in *procuris deserti* prope Gabes
18 Maio 1854 : Hb. Cors. & Hb. Mus. Paris is the same plant as figured above
most always 4 parted flower, very acute lobes etc. but scales larger
heads small like the small *S. dry* plant

L. Knilik in *fulvatis* Djebel Zaghouan 410. a. 7 July in Hb. Paris on
Thymus is the same plant, but in Hb. Bonn it is *calycina* lob. elongat.

E. Corson, on a shrubby *Helianthemum*, Pic de Sidre Amar, Montagne
de l'Ouarsenis, Province d'Alger July 1854 — is the same papillose plant
corolla lobis in *fructu erectis* & *scalis*



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



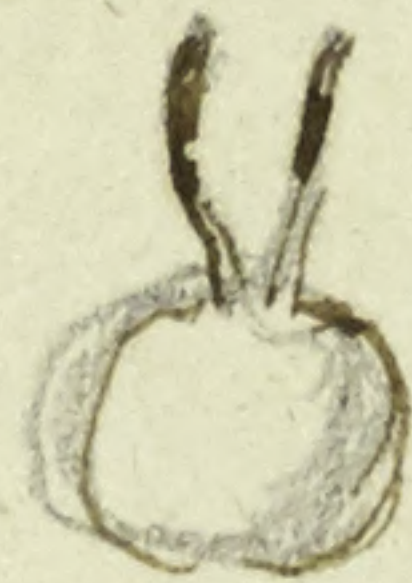
MISSOURI
BOTANICAL
GARDEN

Paris July 1857

s-l

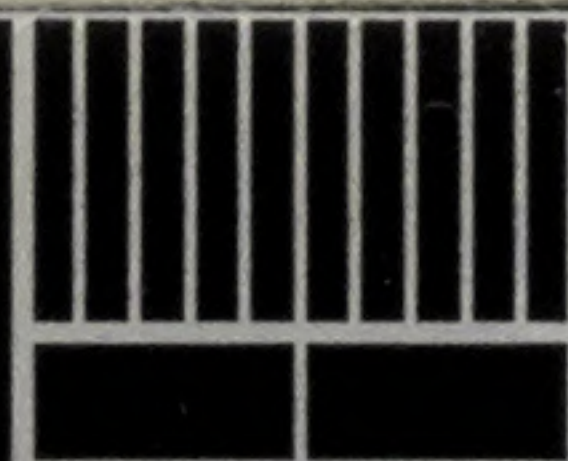
Cuscuta planiflora var. *constricta*
 Nadour, Tunis
 L. Kralik leg. 24 Mai 1857

Hb. Conon 15



This is a very peculiar form, which approaches to *C. globulosa* Boissier, it has the same broadly ovate-triangular, imbricate deeply parted calyx lobes — shape of corolla similar — not quite so convergent, but not granulose or papillose, nor styles so short — in our plant — stems dark red! heads very small $\frac{1}{2}$ –2 mm. It is a form of planiflora, less *constricta*!!

flower less tumid than in most forms of *planiflora*, calyx more fleshy than tumid

0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
 BOTANICAL
 GARDEN

4450

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Paris July 1857

Cuscuta



In personis desertis prope Gabes

Linn.

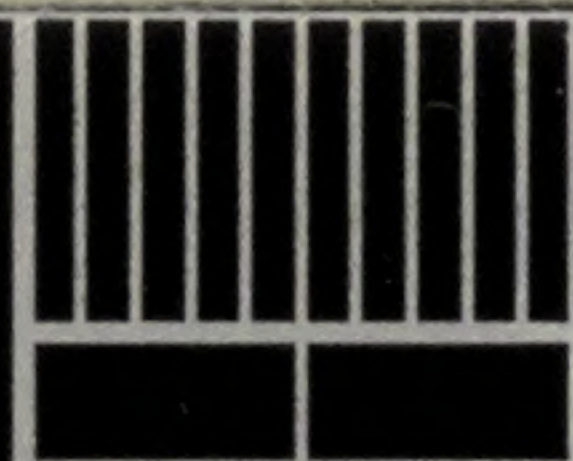
L. Knecht N 411. C. — herb Cosson (17)

or small, dry herbs, a low stem in etc. & Herb Mus. Par. (22)

This is a small headed & small
flowered form of planiflora, with calyx
lobes ovate-lanceolate, deeply divided
scarcely tumid, corolla lobes same shape
very little tumid, — It ought to be
classed with C. planiflora rather than
with Calycina, on account of the absence
of the tumid & large calyx.

Anthers cordate apiculate;

No 5 the Cosson: as marginea deserti Gabes 21 April 1854 L Knecht
is the same plant, lobes of Calyx a little broader tips a little tumid
(on Artemisia) flower rose colored & over

0
cm

1

2

3

4

5

6

7

8

9

10

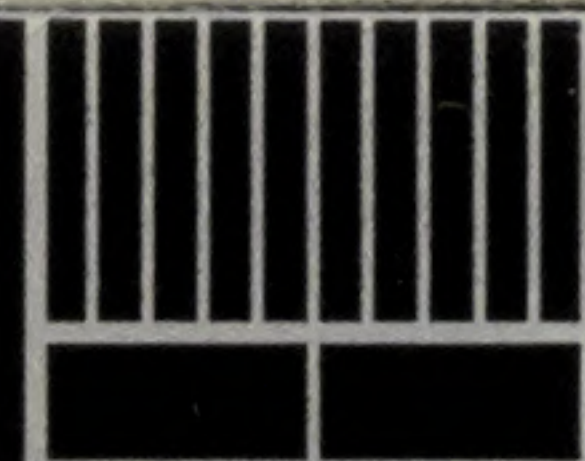
copyright reserved

MISSOURI
BOTANICAL
GARDEN

It is in every respect like the plant, usually called
elder, except that it is less tumid — which gives it a
different look

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4451



0

1

2

3

4

5

6

7

8

9

10

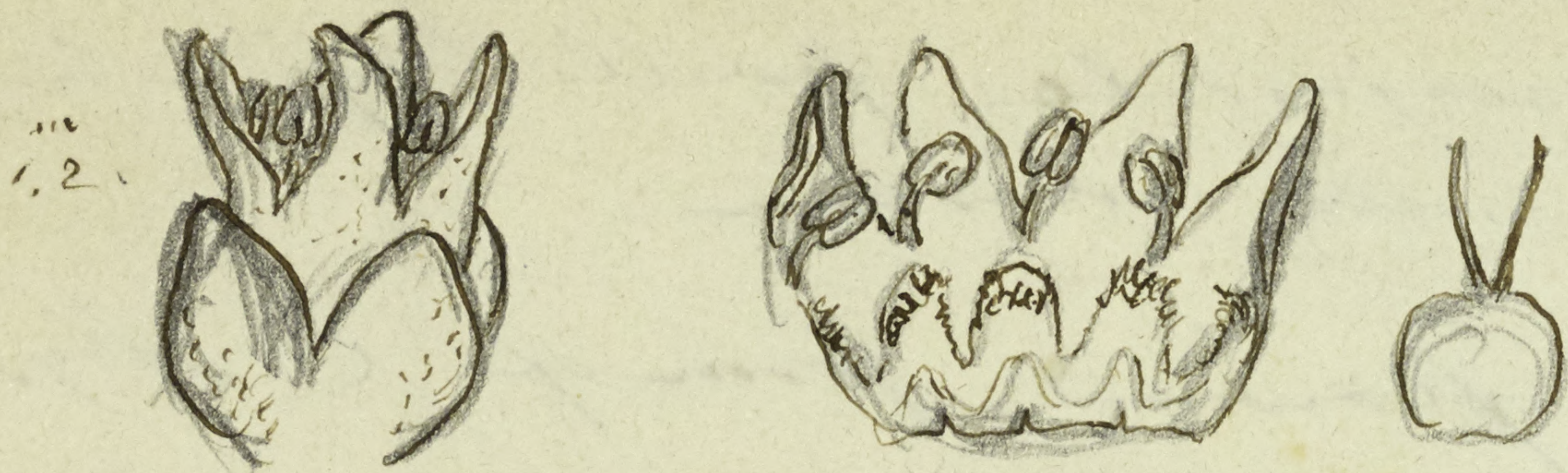
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Paris July 1857

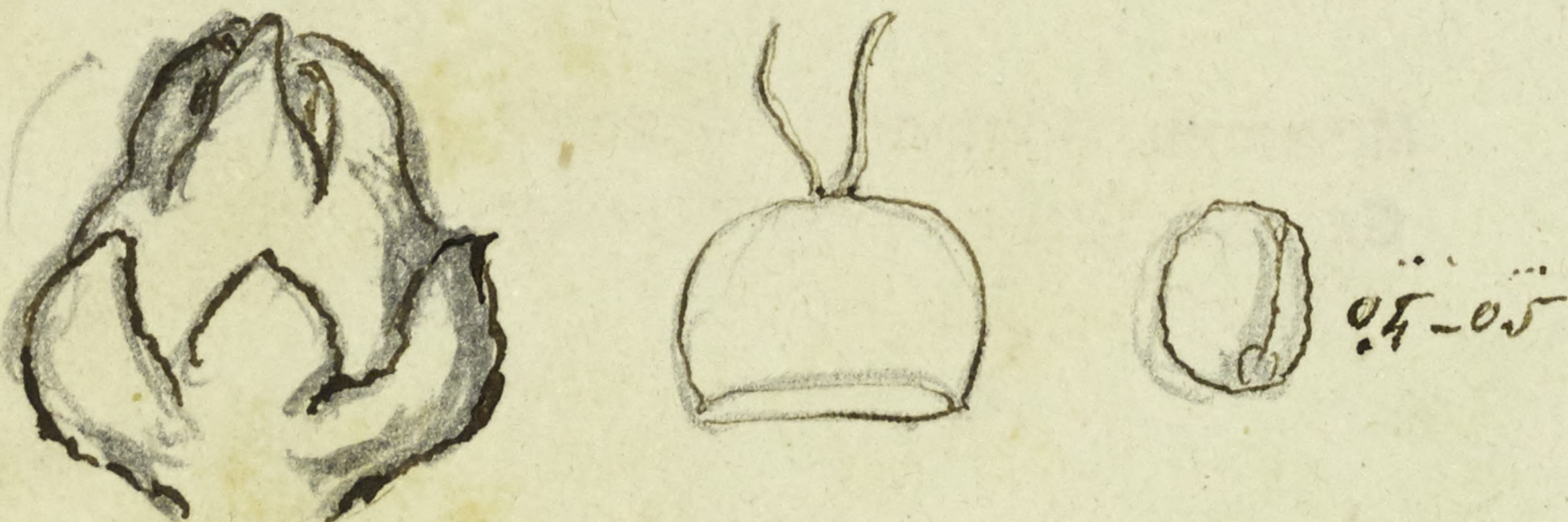


Cuscuta

Yemen, Arabia

D. E. Botta 1837

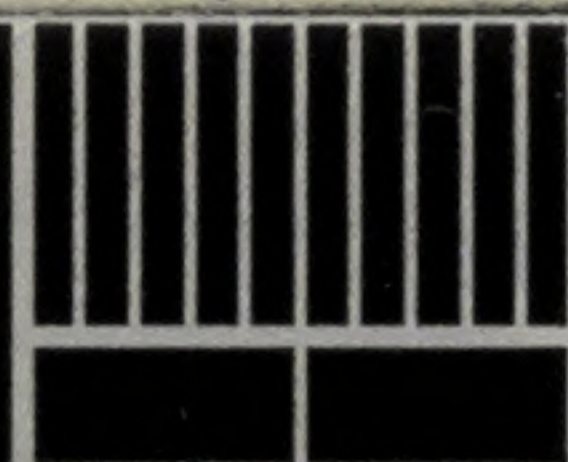
Herb. Mus. Paris.



caulis filiformis, glomerulis
 arcte sessilibus; floribus extus
 sterilibus; internodiis arcte sessilibus
 calycis profunde 4-5 foliis lobis
 carnis carnis verruculosis
 ovato-oblongatis obtusis s.
 cuspidatis, tubum corollae vix

+ tubum corollae erectiusculis
 s. erectis subpetalis, demum connatis

argentibus; laciniis lanceolatis ac-
 tiusculis; staminibus nullis brevibus
 antheris ovata filamenta brevia mucronata

0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved

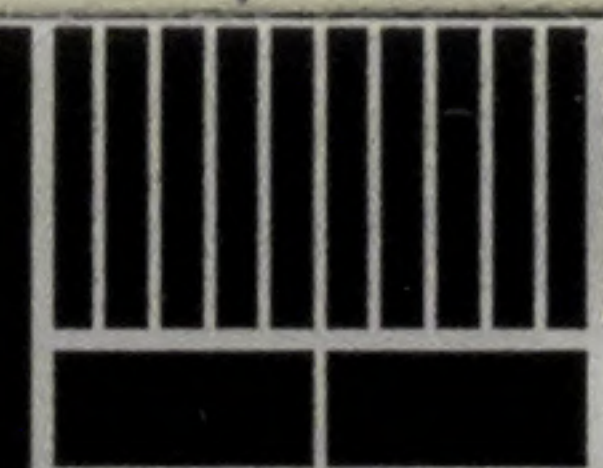
MISSOURI
BOTANICAL
GARDEN

aequaliter; squamis magnis ovatis fibratis immixtis late connatis;
stylis fere missis ovario majusculo periclytis longioribus
capsulae aequalibus in corolla inclusam.

This is a smaller flower form of *C. Abyssinica*
with a shorter style — all forms are distinguished by
the very slender style, the thick texture of calyx
and corolla, with distinct cellular structure, which becomes
papillose at the surface, especially by this small flower
form —

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4452



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved

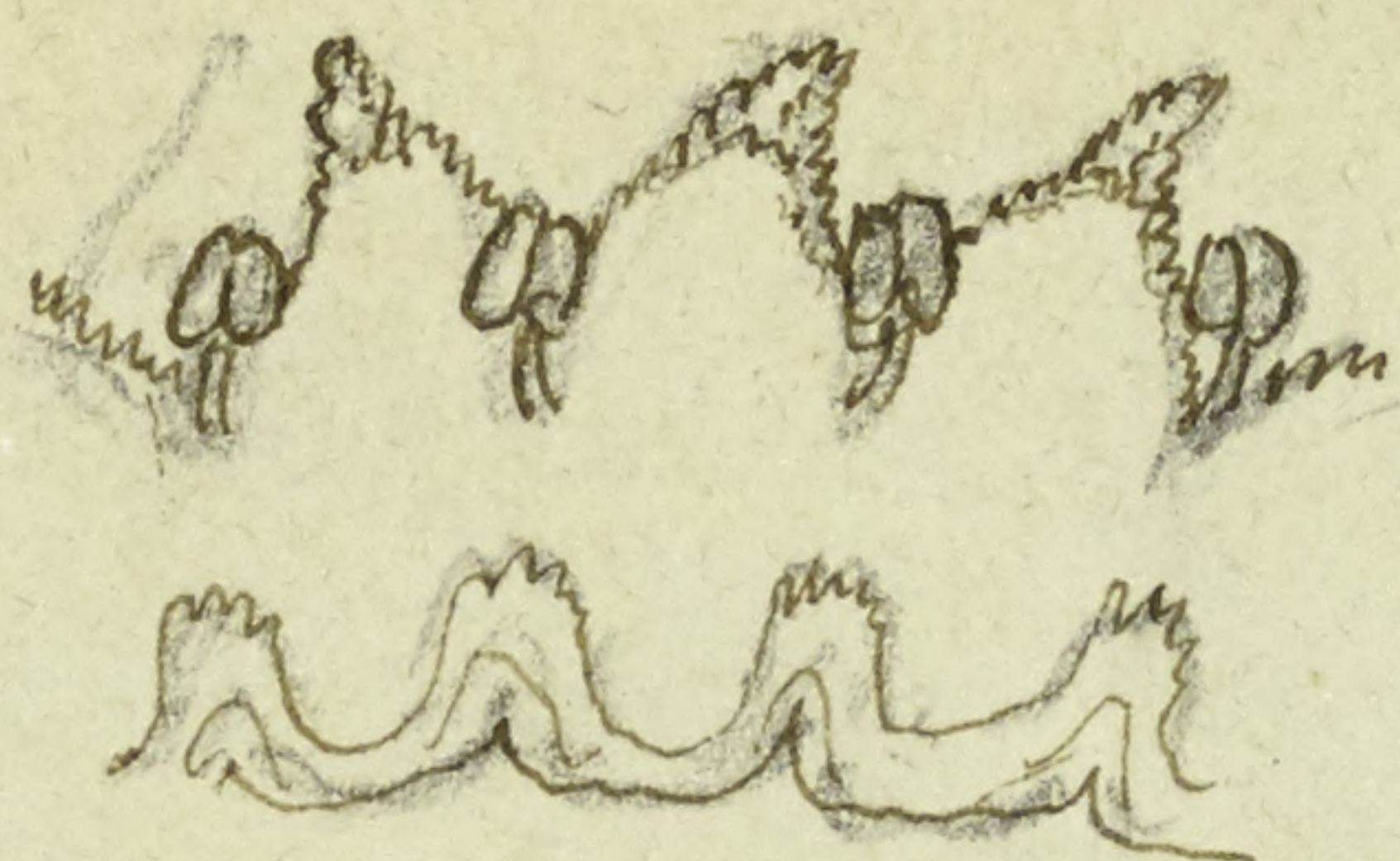


MISSOURI
BOTANICAL
GARDEN

Paris July 1857

1, 2

1, 2

*Cucurbita pepulosa*

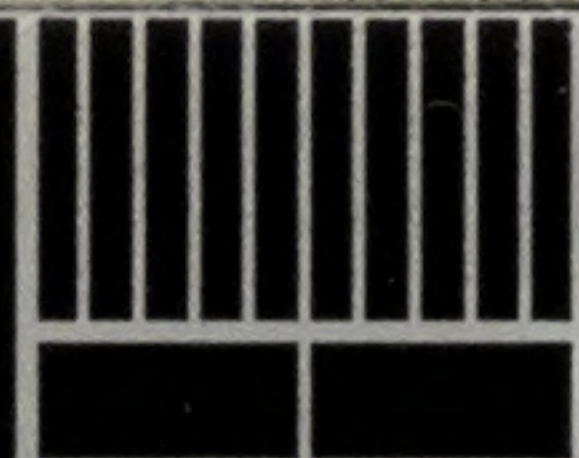
Batum, Algeria

B. Delaunay Paris 1853

Hb Mus Paris on Lavandula

inside of
Calyx

This is again *C. pepulosa*,
but with shorter points ~~the~~
petals than the other forms. —
calyx longer than tube —
anthers rounded, filaments same
length, scales not much more
than half as long as ~~calyx~~ tube;
styles not much longer than ovary
scarcely as long as capsule



0

1

2

3

4

5

6

7

8

9

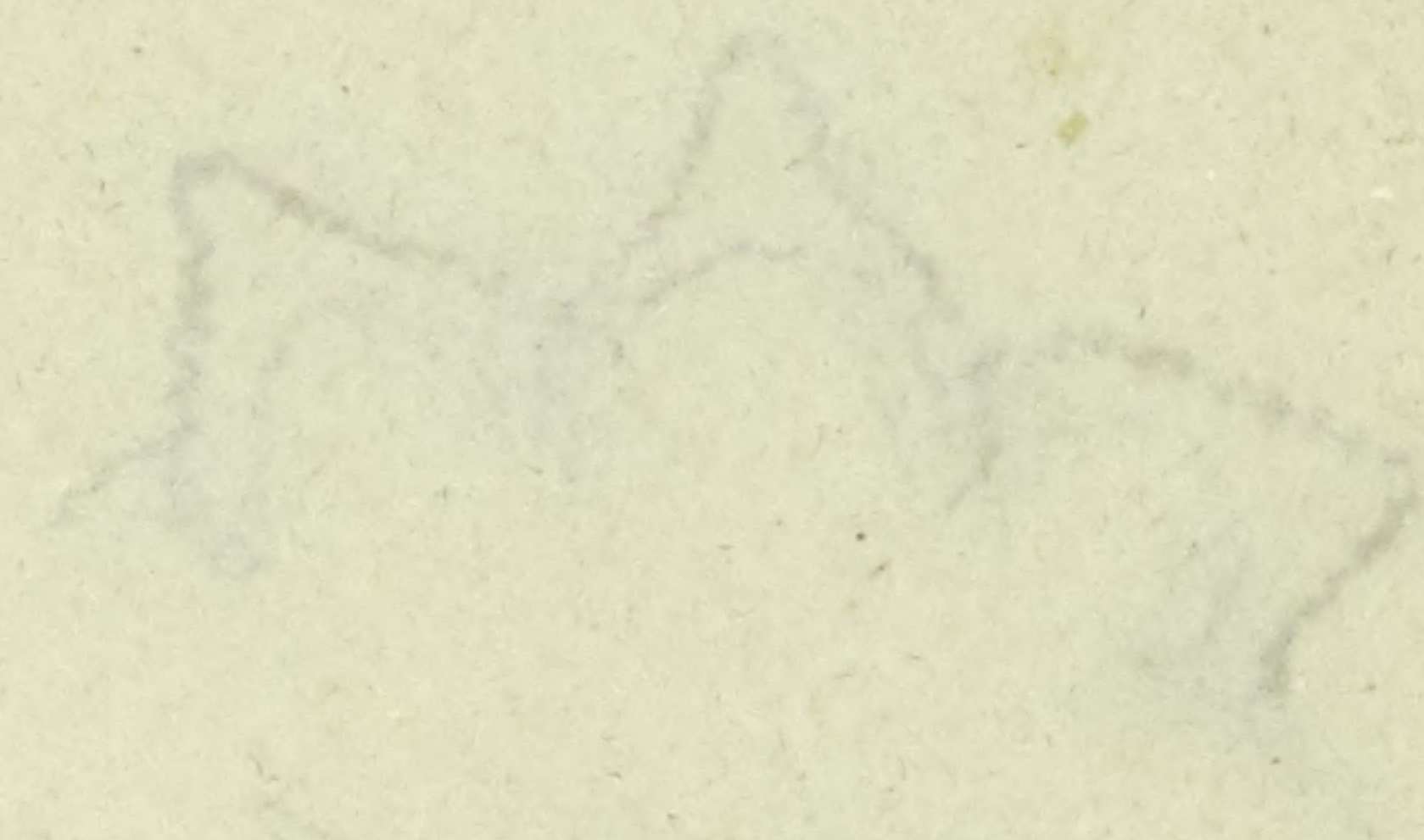
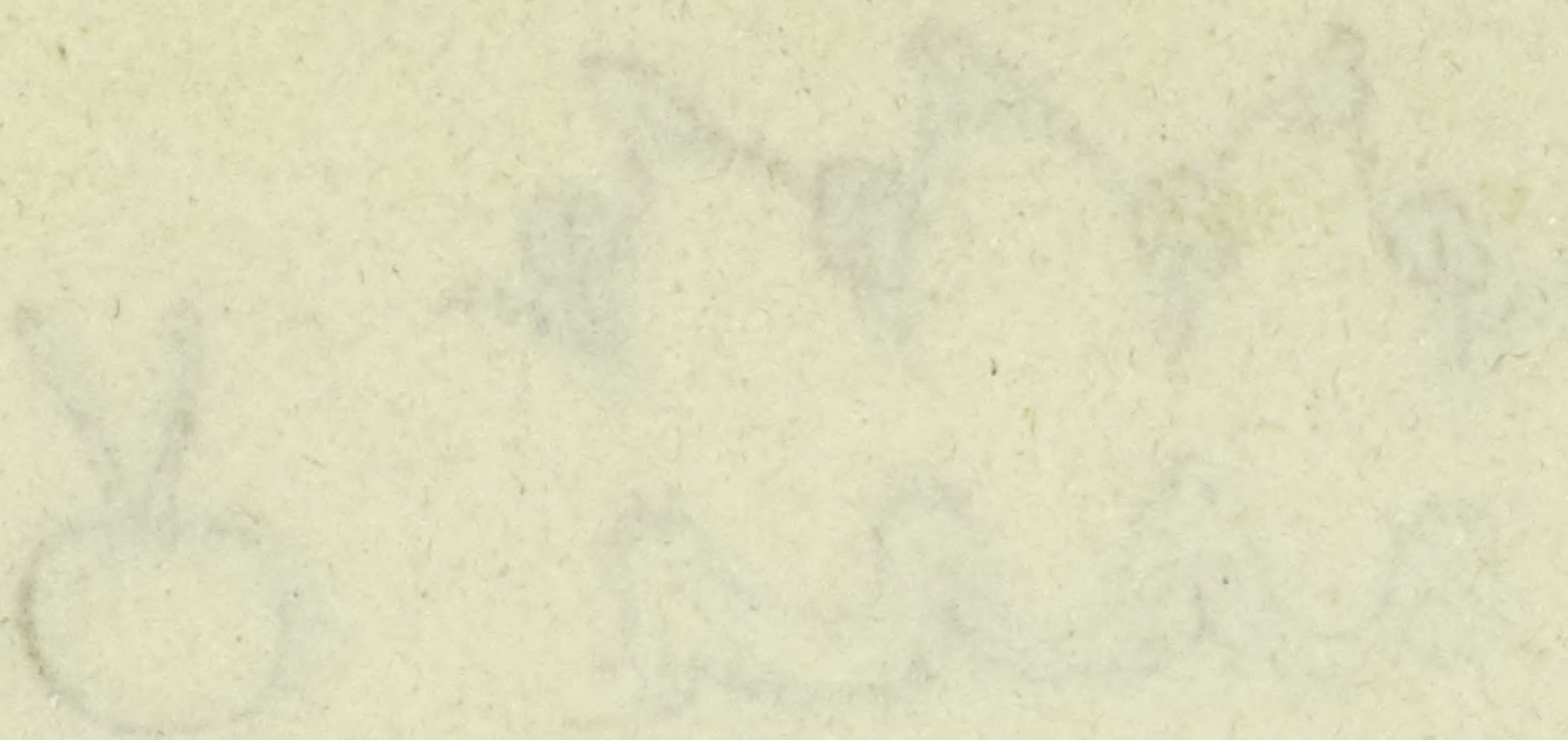
10

cm

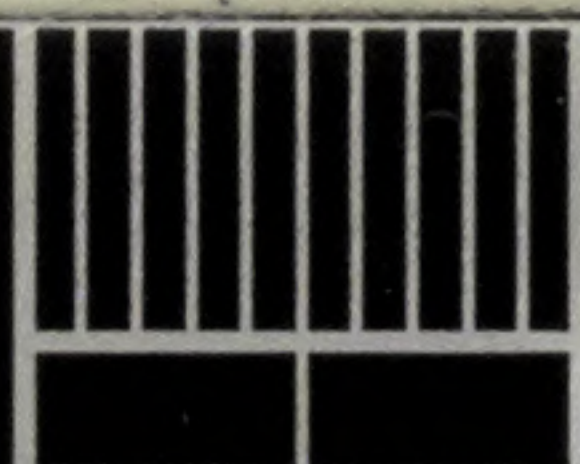
copyright reserved

MISSOURI
BOTANICAL
GARDEN

4453



MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

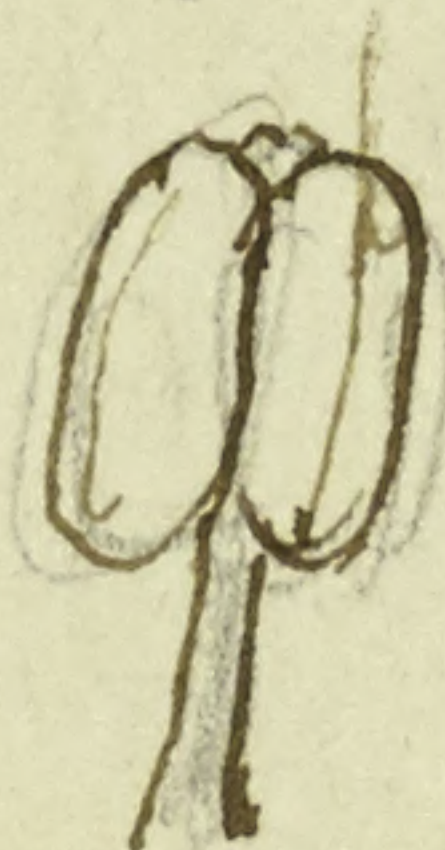
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Paris July 1857

*Cuscuta alba* Griseb. & Godr.!

H. Franzi, II, 503

C. Godroni Desmoul.!

Montpellier, Godron

ex Herb. J. Gay

This seems the acute form of *C. bullata* —
 gemmules small, white, ovate lanceolate
 acute bristly; small abortive flowers;
 6-8 fertile ones; scarcely more than a
 line long — Calyx deeply divided, lobes acute
 thick — lobes of corolla acute, very much
 hooded & thickened at apex, at last
 expanded; stamens short on broad filaments
 styles much longer than ovary —



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

MISSOURI
BOTANICAL
GARDEN

The specimen of Selzmann from the South of France in
Herb. Reg. Berlin mentioned in fig 250 belongs here
is identical — similar to *C. papillosa*, but without
papillae

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4454



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Cuc. p. 467

A Cuscuta

I Eucuscuta

2. stylis ovario

brevioribus

sp. 6-10

(This folder enclosed sheets 125-172)



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



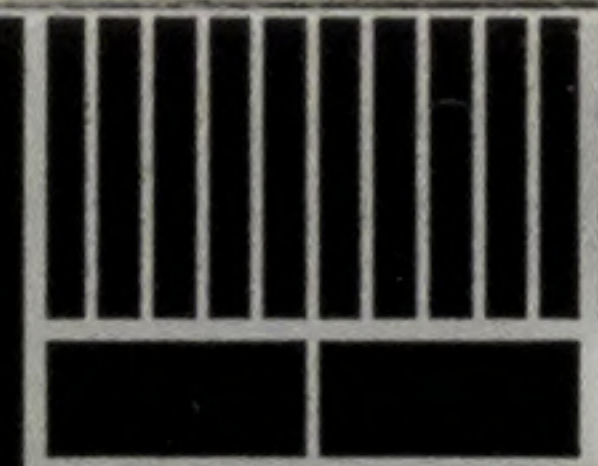
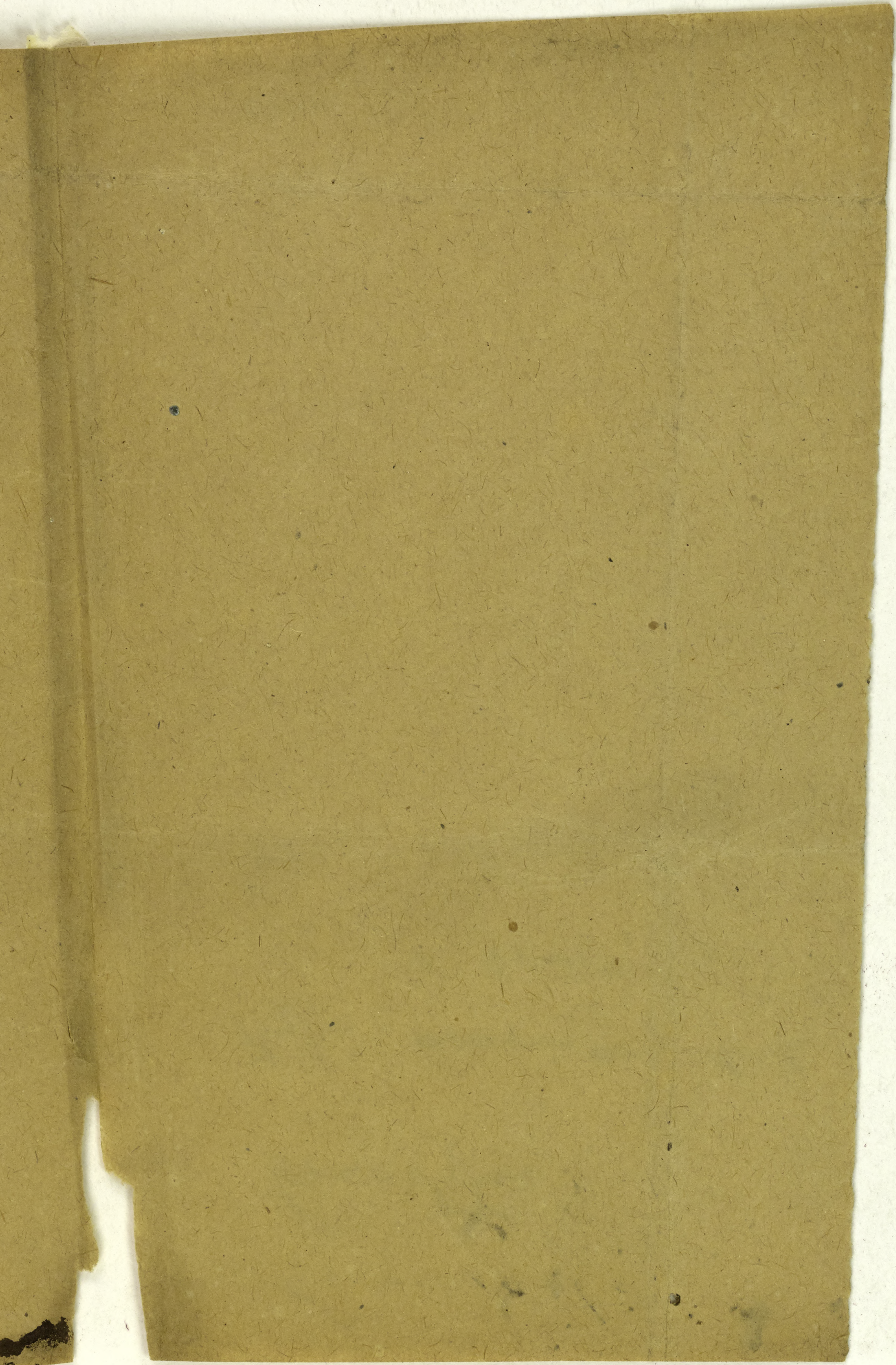
0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

4455

Sparganium angustifolium
Michx.
1890

Sparganium angustifolium
Michx.
1890



0 1 2 3 4 5 6 7 8 9 10

cm

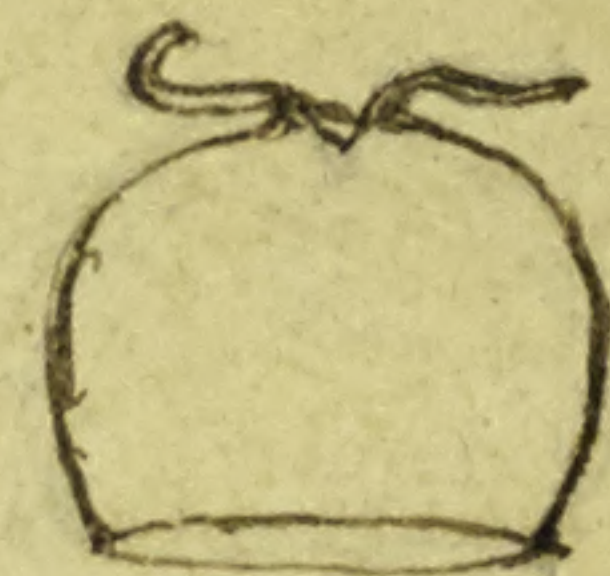
copyright reserved



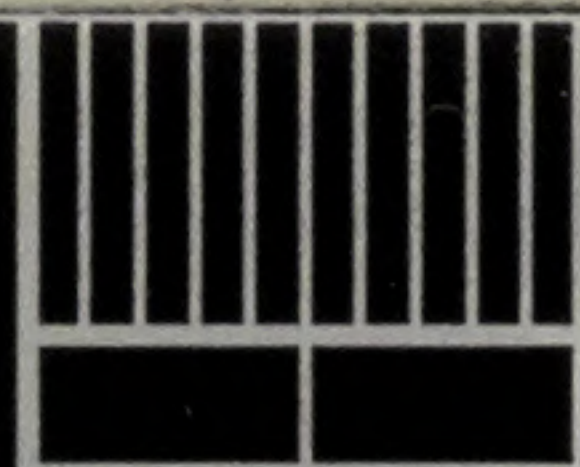
MISSOURI
BOTANICAL
GARDEN

Currents

Schimper, Aegymnia
III. 1486



St Louis Dec. 1846



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

4456

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Curt. / 468

E. brevistyla
var ? *globulosa*
C. globulosa Boiss & Reut
C. Balansea B & R. in herb

131 Tmolus, Balansea 413 Syria
157 Taurus Balansea 707 Labillardier

a form of *brevistyla* ?

a papillose form of *brevistyla*
or belonging with it to *C. planiflora*

= "alba" (which means *planiflora*)
fide Boissier.

(Enclosed 135-137)



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

4457

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

approx. var abbreviata

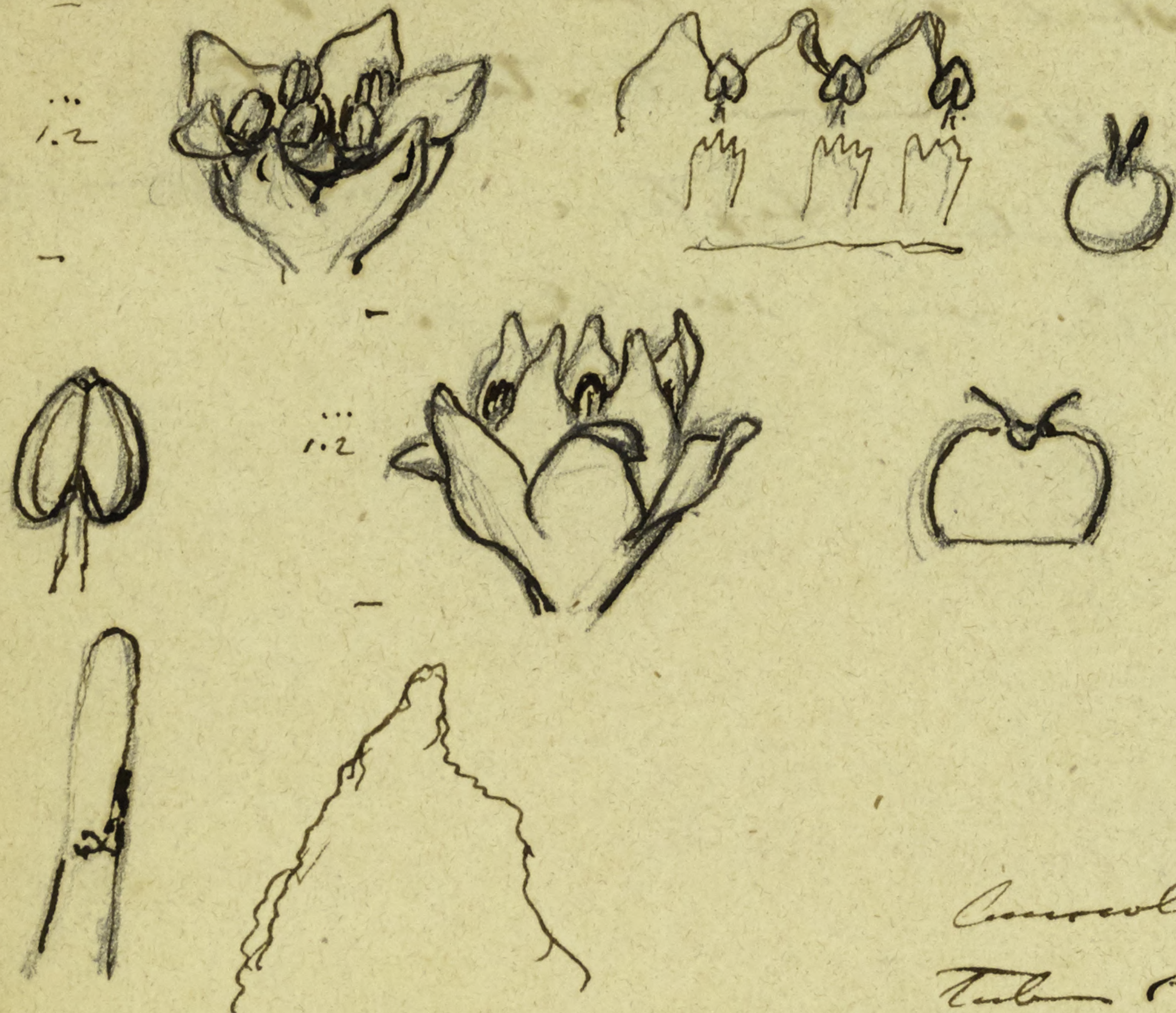
Cuscuta

Kotschy N. Pers. br. N. 580

in monte Totschal pr. Teheran
in Hyemis scabro 23 Julij 1843

(sub. nom. N. Epithymum

Her. Grisebach & Hohenacker fide Boiss.



Corolla papillares, glandulis ^{densis} ~~multis~~ ^{prope stadi} ~~multis~~
 floris sessilibus; 5-fidis
 calycis late campanulati lobis ^{prope stadi} ~~multis~~ ^{prope stadi} ~~multis~~
 cucullatis acutatis, apice tumidis; basi ^{prope stadi} ~~multis~~ ^{prope stadi} ~~multis~~
 tubo corollae longe superantibus; lacini ^{prope stadi} ~~multis~~ ^{prope stadi} ~~multis~~
 ovatis acuminatis, cuspide ^{prope stadi} ~~multis~~ ^{prope stadi} ~~multis~~
 celluloso-glanduloso ^{prope stadi} ~~multis~~ ^{prope stadi} ~~multis~~
 staminibus brevioribus; antheris ^{prope stadi} ~~multis~~ ^{prope stadi} ~~multis
 apice acutis: filamentum vix aequantibus; squamis
 lacinis ^{prope stadi} ~~multis~~ ^{prope stadi} ~~multis
 ovario magno vix aequante capsula brevioribus;~~~~

0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved

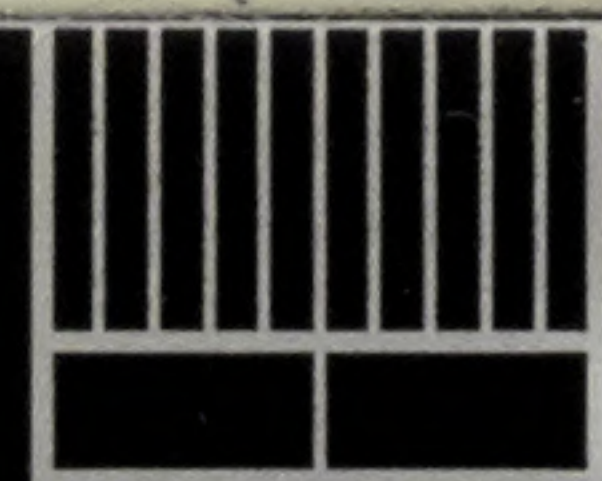
MISSOURI
BOTANICAL
GARDEN

capsules ovate calyptriformi subacutis; sem. parvis.

~~near Epithymum~~ ~~and~~
I think for Epithymum by the short style, for resemblance by
the acute lobes, small capsules, granular texture etc -
flowers ^{pale} yellow, of that granular texture, not much
more than 1 line long; capsule very small.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4458



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Curt p. 467

C. planiflora
 ε papillosa

(Enclosed 115-118)



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



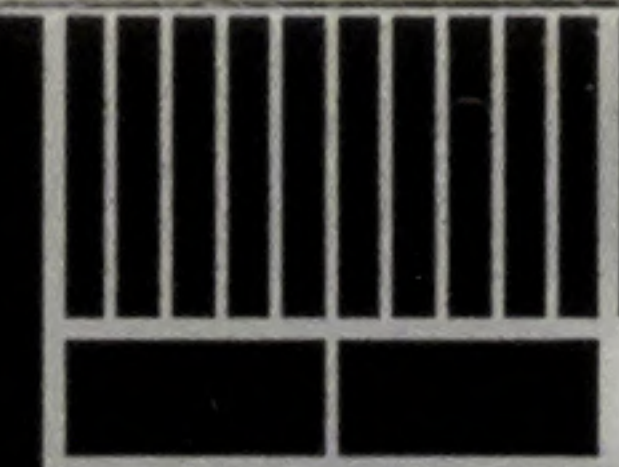
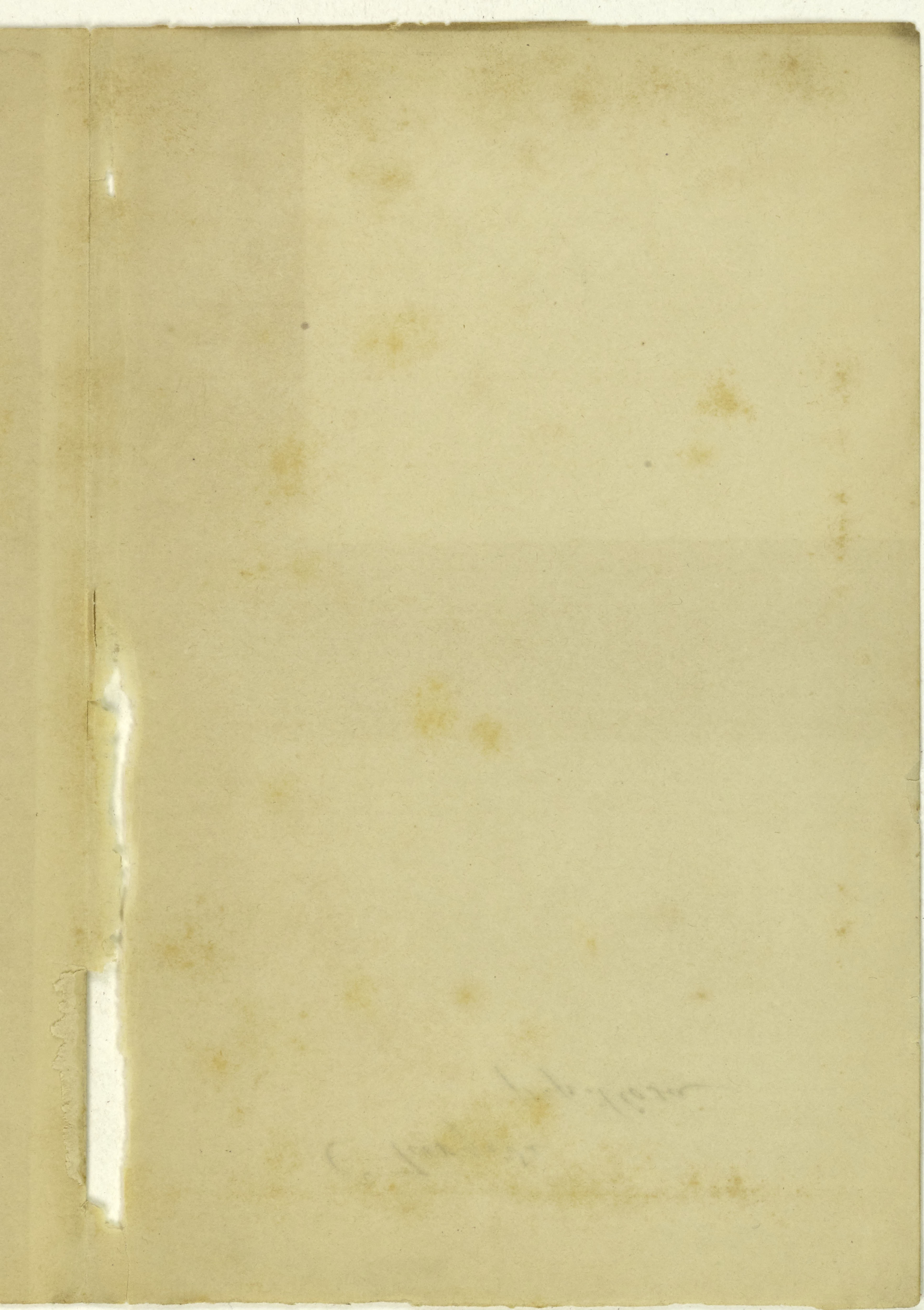
0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

4459

pyralis

C. Turgida

C. pyralis



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN